

Name \_\_\_\_\_

**Practice**  
**5-2**

## Prime Factorization

Given the number and its factors, tell whether it is prime or composite.

1. 92: 1, 2, 4, 23, 46, 92

\_\_\_\_\_

2. 121: 1, 11, 121

\_\_\_\_\_

3. 83: 1, 83

\_\_\_\_\_

4. 129: 1, 3, 43, 129

\_\_\_\_\_

5. 52: 1, 2, 4, 13, 26, 52

\_\_\_\_\_

6. 55: 1, 5, 11, 55

\_\_\_\_\_

7. 29: 1, 29

\_\_\_\_\_

8. 57: 1, 3, 19, 57

\_\_\_\_\_

9. 63: 1, 3, 7, 9, 21, 63

\_\_\_\_\_

Find the prime factorization.

10. 12

\_\_\_\_\_

11. 40

\_\_\_\_\_

12. 64

\_\_\_\_\_

13. 36

\_\_\_\_\_

14. 60

\_\_\_\_\_

15. 65

\_\_\_\_\_

16. 20

\_\_\_\_\_

17. 30

\_\_\_\_\_

18. 56

\_\_\_\_\_

19. 21

\_\_\_\_\_

20. 18

\_\_\_\_\_

21. 16

\_\_\_\_\_

22. 630

\_\_\_\_\_

23. 1001

\_\_\_\_\_

24. 625

\_\_\_\_\_

25. The prime factorization of a number is  
 $2 \times 2 \times 3 \times 3 \times 3 \times 5 \times 5 \times 5 \times 5$ .  
What is the number?

\_\_\_\_\_

26. **Social Science** The House of Representatives has 435 members. If a committee has a prime number of members, and that number is a factor of 435, then how many members can be on the committee?

\_\_\_\_\_